AMENDMENTS TO THE CLAIMS

The following listing of claims will replace all prior versions and listings of claims in the application.

LISTING OF CLAIMS

1. (original) A boron aluminosilicate glass comprising at least the following components (in wt.-%):

```
40 to 47
SiO<sub>2</sub>
                       0.1 to 6
B_2O_3
                       0.1 to 4
Al_2O_3
                       0. to 4
P_2O_5
                       0 to 2
Li<sub>2</sub>O
Na<sub>2</sub>O
                       2 to 7
                 >6.5 to 11
K_2O
MgO
                       0 to 5
CaO
                       0. to 6
                       6 to 14
BaO
                       20 to 25
ZnO
La_2O_3
                       0 to 1.5
ZrO_2
                       1 to 7.
```

2. (original) The boron aluminosilicate glass of claim 1 comprising in wt.-%):

```
SiO_2
                              42 to 47
       B_2O_3
                              0.1 to 5
       Al_2O_3
                              0.1 to 2
       P_2O_5
                              0.5 to 3
       Na<sub>2</sub>O
                              3 to 6
       K_2O
                        >6.5 to 10
       CaO
                             1 to 5
       BaO
                              6 to 12
       ZnO
                             20 to 25
       ZrO_2
                             3 to 7,
up to 1 wt.-% of refining agents.
```

Serial No. 10/789,926

3. (original) A boron aluminosilicate glass comprising at least the following components (in wt.-%):

```
SiO<sub>2</sub>
                        38 to 45
                        0.1 to 6
B_2O_3
Al_2O_3
                        0.1 to 4
P_2O_5
                        0.1 to 4
                  >2 to 6
Li<sub>2</sub>O
Na<sub>2</sub>O
                        2 to 7
                        2 to 6.5
K_2O
                        0 to 5
MgO
                        0.5 to 6.5
CaO
                        6 to 14.5
BaO
ZnO
                        14 to <20
                  >1.5 to 5
La_2O_3
                        1 to 7.
ZrO_2
```

4. (original) The boron aluminosilicate glass of claim 3, comprising the following components (in wt.-%):

```
SiO<sub>2</sub>
                                 38 to 43
        B_2O_3
                                 0.1 to 5
        Al_2O_3
                                 0.5 to 3
        P_2O_5
                                 0.5 to 3
        Li<sub>2</sub>O
                           >2 to 6
        Na<sub>2</sub>O
                                 3 to 6
        K_2O
                                 3 to 6.5
        CaO
                                 2 to 6.5
        BaO
                                 8 to 14.5
        ZnO
                                 14 to 19
        La_2O_3
                           >1.5 to 3
                                 2 to 5,
        ZrO_2
up to 1 wt.-% of refining agents.
```

5. (original) A boron aluminosilicate glass comprising (in wt.-%):

```
35 to 50
SiO<sub>2</sub>
B_2O_3
                      0.1 to 7
Al_2O_3
                      0.1 to 7
                      0.1 to 4
P_2O_5
                      4 to 24
R_2O
RO
                      0 to 12
                      6 to 14.5
BaO
ZnO
                     14 to 25
La_2O_3
                      0 to 5
                      0 to 10,
ZrO_2
```

wherein R₂O is an alkali oxide, RO is an alkaline earth oxide apart from BaO, wherein the amount of Li₂O is 6 wt.-% maximum and wherein the glass, apart from any unintended contaminants, does not contain any GeO₂, SnO₂, SnO₂, Sb₂O₃, AgO or any rare earth metals.

- 6. (original) The boron aluminosilicate glass of claim 5 which comprises up to 1 wt.-% of refining agents.
- 7. (original) The boron aluminosilicate glass of claim 6, wherein said refining agents comprise at least one component selected from the group formed by Sb₂O₃, As₂O₃, SnO, NaCl, SO₄²⁻ and F.
 - 8. (original) The boron aluminosilicate glass of claim 5 comprising (in wt.-%):

SiO_2	35 to 50
B_2O_3	0.1 to 7
Al_2O_3	0.1 to 7
P_2O_5	0.1 to 4
Li ₂ O	0 to 6
Na ₂ O	2 to 7
K ₂ O	2 to 11
MgO	0 to 5
CaO	0.5 to 6.5
BaO	6 to 14.5
ZnO	14 to 25
La_2O_3	0 to 5
ZrO_2	1 to 10

refining agents in common amounts.

9. (original) The boron aluminosilicate glass of claim 7, wherein the portion of RO in the total weight is smaller than the portion of BaO.

10. (original) The boron aluminosilicate glass of any claim 5, comprising at least the following components (in wt.-%):

SiO₂ 38 to 47 B_2O_3 0.1 to 6 Al_2O_3 0.1 to 4 P_2O_5 0.1 to 4 Li₂O 0 to 6 Na_2O 2 to 7 K_2O 2 to 11 MgO 0 to 5 CaO 0.5 to 6.5 BaO 6 to 14.5 ZnO 14 to 25 La₂O₃0 to 5 1 to 7. ZrO_2

- 11. (original) The boron aluminosilicate glass of claim 5 having a refractive index n_d of $1.54 = n_d = 1.62$.
- 12. (original) The boron aluminosilicate glass of claim 5 having an Abbe number of $48 = v_d = 57$.
- 13. (withdrawn) An optical stepped-index fiber comprising a core glass according to claim 5, and further comprising a cladding glass fully enclosing an outer surface of said core glass and having a numerical aperture of 0.28 to 0.70.
- 14. (withdrawn) The optical stepped-index fiber of claim 13, wherein said cladding glass comprises (in wt.-%):

SiO₂ 60 to 72 B_2O_3 < 20 Na₂O < 18 K_2O < 15 Li₂O < 2 MgO < 3 BaO < 3 SrO < 4 CaO < 6 ZnO < 3 \mathbf{F} < 1 other oxides 0 to 3,

up to 1 wt.-% of refining agents.

15. (withdrawn) The optical stepped-index fiber of claim 13, wherein said cladding glass comprises (in wt.-%):

SiO ₂	60 to 72
B_2O_3	< 20
Na ₂ O	< 18
K ₂ O	< 15
Li ₂ O	< 2
MgO	< 3
BaO	< 3
SrO	< 4
CaO	< 6
ZnO	< 3
F	< 1.

- 16. (withdrawn) The optical stepped-index fiber of claim 13, wherein said cladding glass, apart from any unintended contaminants, does not contain any Cs₂O.
- 17. (withdrawn) The optical stepped-index fiber of any of claim 13, wherein in said cladding glass the sum of the components Na₂O, Li₂O and K₂O is smaller than 3 wt.-%.
- 18. (withdrawn) The optical stepped-index fiber of any of claims 17 wherein in said cladding glass the content of SiO_2 is between 66 and 72 wt.-%.
 - 19. (new) A boron aluminosilicate glass comprising (in wt.-%):

SiO ₂	35 to 50
B_2O_3	0.1 to 7
Al_2O_3	0.1 to 7
P_2O_5	0.1 to 4
R_2O	4 to 24
RO	0 to 12
BaO	6 to 14.5
ZnO	14 to 25
La ₂ O ₃	0 to 5
ZrO_2	1 to 10,

wherein R_2O is an alkali oxide, RO is an alkaline earth oxide apart from BaO, wherein the amount of Li_2O is 6 wt.-% maximum.